

What is claimed is:

1. A combination metal gasket:

wherein the combination metal gasket is formed by fitting a ring-shaped metal base elastic structure in at least one trough portion of two trough portions of a ring-shaped metal gasket that has an S-shaped longitudinal cross section.

2. A combination metal gasket:

wherein the combination metal gasket is formed by fitting a ring-shaped metal base elastic structure in at least one trough portion of three trough portions of a metal gasket that has a substantially E-shaped longitudinal cross section.

3. A combination metal gasket as set forth in claim 1 or 2:

wherein the ring-shaped metal base elastic structure is a ring structure that has a U-shaped or V-shaped longitudinal cross section.

4. A seal structure:

wherein the seal structure is formed by fitting a combination metal gasket set forth in claim 1 or 2 in between members being sealed.

5. A seal structure as set forth in claim 4:

wherein at least one ring-shaped metal base elastic structure is fitted in a trough portion on a lower pressure side of a side of fluid being sealed and a side of non-fluid that is on the opposite side thereof.

6. A seal structure as set forth in claim 4:

wherein a temperature on a side of fluid is in the range of from 200 to 500 degree centigrade.